

# A429

## 4MP Deep Learning AI LightGuard 4.3x Zoom Bullet with IR LED 60m, WDR 150dB



- 4 Megapixel, 4.3x Zoom Bullet
- Deep Learning AI, LightGuard
- Frame Rate 120fps
- Super wide angle
- Weatherproof (IP67), Vandal proof (IK10), Vibration proof

### ► Specifications

#### Product Profile

Product Type	Zoom Bullet
Product Application	Automatic License Plate Recognition
Application Environment	Outdoor
Maximum Resolution	4MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/1.8 "
Day / Night	Yes
Low Light Sensitivity	Extreme
LightGuard	Yes
Minimum Illumination	Color: 0.0005 lux at F1.2 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED
IR Working Distance	60m
Electronic Shutter	1-1/100000 second (manual mode); 1-1/100000 second (auto mode)
S/N Ratio	75 dB

Number of Traffic Lanes	2
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## Lens

Focal Length	Zoom, f2.8-12mm
Aperture	F1.38-F2.53
Zoom Ratio	4.3x optical zoom
Iris	P-Iris
Focus	Auto focus
Horizontal Viewing Angle	106° - 41.8°
Vertical Viewing Angle	55.4° - 23.6°

## Video

Compression	H.265 Adaptive Stream (equivalent to Zip or Smart Stream or H.265+), H.264, MJPEG
Maximum Frame Rate vs. Resolution	120 fps at 1920 x 1080 60 fps at 2688 x 1520 60 fps at 2560 x 1440 60 fps at 1280 x 720 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 704 x 480 30 fps at 640 x 480
Bit Rate	32Kbps - 8Mbps
Multi-Streaming	Simultaneous 5 streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Extreme WDR (150 dB)
Image Enhancement	White Balance, Brightness, Contrast, Sharpness, Saturation, Automatic gain control (AGC), Backlight compensation (BLC), Highlight compensation (HLC), Digital Image Stabilizer (DIS, EIS), Defogging
Privacy Mask	8 configurable regions
On-Screen Graphics (Picture Overlay)	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, Smart Intrusion Protection, Object Metadata, Tampering Detection, People Line Crossing Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection, Vehicle Counting, License Plate Detection, Automatic License Plate Recognition, Road Traffic Monitoring, Vehicle Incorrect Direction Detection
Plug-in Analytics	Mask Wearing or Absence Detection, Helmet Wearing or Absence Detection, Construction Site Safety Violation Detection, Fire & Hazardous Materials Control Room Rules Violation Detection, Gas Station & Control Room Rules Violation Detection

## Analytics

Camera Object Metadata	Vehicle type, Vehicle color, Vehicle brand, Vehicle direction
Deep Learning AI	2.0

## Audio

Audio Type	2-way
Audio Compression	G.711, G.722.1, G.726, MP2L2, PCM, MP3, AAC

**Network**

Network Protocol & Service	IPv4/v6, TCP, DHCP, ARP, DDNS, DNS, FTP, HTTP, HTTPS, IEEE 802.1X, ICMP, IGMP, NTP, PPPoE, QoS, SFTP, SMTP, SSL/TLS, RTSP, RTCP, RTP, UPnP, UDP, Bonjour
Ethernet Port	1 x Ethernet (10/100/1000 Base-T), RJ-45 connector

**Event**

Event Response	Notify control center, Send E-mail Notification, Save video or snapshot to storage, Upload video or snapshot to FTP server, Command other devices
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**Storage**

Blocklist/Allowlist	up to 10,000 records
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**Interface**

Serial Port	1 x RS-485
Audio Interface	1/1, 3.5mm Phone Jack
Digital Input/Output	2/2
Operating Button	Reset Button


**Installation**

Vehicle Capture Speed	Front-Installation: 120 km/h Side-Installation: 80 km/h
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**General**

Power Source	DC 12V, AC 24V, PoE Class 4 (IEEE802.3at)
Power Consumption	20.7 W (PoE)
Dimensions	(Ø x H): 140mm x 378.4mm (5.5" x 14.9")
Environmental Casing	Weatherproof (IP67), Vandal proof (IK10), Vibration proof
Heater	Yes
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Operating Humidity	≤95% RH, non-condensing
Approvals	CE, EN50121-4, IP67, IK10, NEMA 4X
Warranty	3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a>

**▶ Related Products****Mounting Accessories - Camera Mount**

PMAX-0524	 Pole Mount (for A46, A421, A422, A423, A425, VMGB-359), supports 2.64" to 5" Poles
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**Note:** Some mounting accessories may need additional accessories for installation. Please check [www.acti.com/mountingselector](http://www.acti.com/mountingselector) for more information.